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optical disc copy protect pointer

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| - | 2003

include citations

Results 1 -

Optical disk with copy protection, and apparatus and method for recording and reproducing

HC Davis, CA Nelson, GJ Keller - US Patent 5,809,006, 1998 - Google Patents

... 15, 1998 Sheet 8 of 11 O) \$£ G: Page 11. US Patent 5,809,006 Sep. 15, 1998 Sheet 9 of 11 1010
1020 SELECT INDICATOR ADDRESS \r READ **POINTER** AND NO. ... Page 14. 5,809,006 **OPTICAL**
DISK WITH COPY PROTECTION, AND APPARATUS AND METHOD FOR ...[Cited by 11](#) - Related articles - All 2 versions**[CITATION] The Optical File Cabinet: a random-access file system for write-once **optical** disks**

J Galt, B Tektronix - Computer, 1988

[Cited by 85](#) - Related articles - All 4 versions**[PDF] Protecting file systems: A survey of **backup** techniques**

A Chervenak, V Vellanki, Z Kurmas - ... Joint NASA and IEEE Mass Storage ..., 1998 - Citeseer

... The simplest way to **protect** a file system against **disk** failures or file corruption is to ... Lower levels of the hierarchy may include magnetic **disk**, magnetic tape and **optical disk** drives. **Copy** storage pools are lower levels of the storage hierarchy that are used specifically for backup. ...[Cited by 106](#) - Related articles - View as HTML - All 20 versions**Optical disk system emulating magnetic tape units**

RV Keele, CD Mautner, TJ Thorpe, SR ... - US Patent ..., 1995 - Google Patents

... 3iaj 7 ^ il // s ^~~~\ 310 ID BYTES **DISK** TYPE **DISK** LABEL RESERVED ... INITIALIZE INTERRUPTS
408 INITIALIZE TERMINAL SCREEN 410 INITIALIZE **OPTICAL** DRIVES 412 ... OR FLOPPY
HANDLER YES CHECK PROGRESS OF COMMAND **COPY** **OPTICAL** DRIVE STATUS ...[Cited by 30](#) - Related articles - All 2 versions**The Rio file cache: Surviving operating system crashes**

PM Chen, WT Ng, S Chandra, C Aycock, G ... - Proceedings of the ..., 1996 - portal.acm.org

... 1 Introduction A modern storage hierarchy combines random-access memory, magnetic **disk**, and possibly **optical disk** or magnetic tape to try to keep pace with rapid advances in proces ...Rio **Disk**- Rio with without Based **Protection** **Protection** 2 1 ... 4 **copy** overrun off-by-one 1 2 1 ...[Cited by 173](#) - Related articles - All 57 versions**Method for stega-cipher **protection** of computer code**

SA Moskowitz, M Cooperman - US Patent 5,745,569, 1998 - Google Patents

... of a program are loaded into 30 1. A method for **copy protection** of computer ... an encoded code resource from the identified Handles, which are double-indirect **pointers** to memory ... Wave Sys-magneto-**optical disk** and a memory cartridge, terms' approach to security of software, if ...[Cited by 59](#) - Related articles - All 4 versions**[CITATION] DVD-Video: Multimedia for the masses**

J Taylor - IEEE Multimedia, 1999

[Cited by 10](#) - Related articles - All 5 versions**[CITATION] Caching strategies to improve **disk** system performance**

R Karedia, JS Love, BG Wherry - Computer, 1994
Cited by 174 - Related articles - BL Direct - All 4 versions

Phoenix: a safe in-memory file system

J Galt - Communications of the ACM, 1990 - portal.acm.org
... Fault tolerant operating systems may also adopt a **copy** on write strategy between ... and mapping techniques used have been successfully tested in the **Optical** File Cabinet ... LOGICAL TO PHYSICAL REPRESENTATION The Phoenix logical **disk** is represented as the leaves of a ...

Cited by 47 - Related articles - All 3 versions

Method and arrangement for preventing unauthorized duplication of optical discs using barriers

MA Arps, J Blixt - US Patent 5,787,068, 1998 - Google Patents
... mention includes one or more decoy data files that cannot be properly read by the **optical** head. ... between the decoy and the real files and thus would be frustrated trying to **copy** these files. ... installation, and if finding that they did not have an error, determine that the **disc** was not ...

Cited by 6 - Related articles - All 4 versions

Optical disk having electronic watermark, reproducing apparatus thereof and copy protecting method using the same

H Yamada, H Ando, T Kojima, K Hirayama - US Patent 6,490,683, 2002 - Google Patents
... 3,2002 (54) **OPTICAL DISK** HAVING ELECTRONIC WATERMARK, REPRODUCING APPARATUS THEREOF AND **COPY** PROTECTING METHOD USING THE SAME (75) Inventors: Hisashi Yamada, Yokohama; Hideo Ando, Tokyo; Tadashi Kojima; Kouichi Hirayama, both of ...

Cited by 2 - Related articles - All 2 versions

Point-in-time backup utilizing multiple copy technologies

MA Haye, RM Kern, DM Shackelford - US Patent 6,078,932, 2000 - Google Patents
... on some form of backup data storage device, such as magnetic or **optical disk** drives, tape ... which are not **protected** by a point-in-time technology remain **protected** by serialization. As a result, the resources held during restart include concurrent **copy** sessions, snapshot copies ...

Cited by 8 - Related articles - All 2 versions

Multi controller

K Fujita, S Sato - US Patent App. 09/803,140, 2001 - Google Patents
... 37 IMF **DISK** DRIVE -1001 ... VRO (STILL PICTURE AUDIO FILE) VR MANGER.BUP
AUDIO_TS.IFO(AMGI FILE) AUDI_TS.BUP(AMGI BACKUP FILE) ATS_01 ... 1to1 CJY 00 : MOVIE CELL, 20 (h): STILL PICTURE CELL 2 to 3 C_EPI_Ns NUMBER OF- SEARCH **POINTER** OF ...
Cited by 3 - Related articles - All 4 versions

[PDF] Rio: Storing Files Reliably in Memory

P Chen, C Acock, W Ng, G Rajamani, R ... - 1995 - Citeseer
... Storage hierarchies combine random-access memory, magnetic **disk**, and possibly **optical disk** and magnetic tape to ... but the **copy** is not **protected**, so individual stores to the **copy** would not ... reliability semantics of memory-mapped files without needing to write pages back to **disk**. ...
Cited by 3 - Related articles - View as HTML - All 8 versions

DVD controller with embedded DRAM for ECC-block buffering

HC Nguyen, SH Ho - US Patent 6,167,551, 2000 - Google Patents
... While such **optical-disk** controllers have been effective for CD-ROM **optical** disks, DVD-ROM controllers use Page 11. ... Because full-length motion pictures can be stored on DVD disks, scrambling, encryption, and **copy-protection** are necessary for DVD readers. ...
Cited by 6 - Related articles - All 2 versions

Sensitive security points in PC microcomputers: understanding for building secure solutions to intrusions

D Quinier - ACM SIGSAC Review, 1992 - portal.acm.org

... A greater complexity. • The importance of uninfected backup copies. ... Because of the diversity of "viruses" and their different action modes, archiving the system should be preferable on **optical disk** WORM support. ... (eg a write **protect** file will give the ...)

Cited by 2 - Related articles - All 2 versions

Comparing disk and memory's resistance to operating system crashes

WT Ng, CM Aycock, G Rajamani, PM Chen - Issre, 1996 - computer.org

... modern storage hierarchy combines random-access memory, magnetic **disk**, and possibly **optical disk** or mag ... that the system remained running long enough to propagate the corruption to **disk**.

Copy overruns have a relatively high chance of corrupting the file cache because the ...

Cited by 23 - Related articles - All 6 versions

Using write-once memory for database storage

D Maier - Proceedings of the 1st ACM SIGACT-SIGMOD ..., 1982 - portal.acm.org

... clean room conditions, since the recording surface is **protected** from dust, smoke and finger-prints, unlike other systems for laser written ... hausted. We need ways to **copy** current values of ... References [Am1] GJ Amman. "Wideband **optical disc** data recorder systems." Proc. ...

Cited by 20 - Related articles - All 2 versions

Method and apparatus for preventing data copying from a **disk** using data lengths too large for pirate medium

H Nakajima, T Kitada, H Ogawa - US Patent 5,832,088, 1998 - Google Patents

... Thus, an illegal **copy** from the CD-ROM to a blank **disk** becomes substantially useless, thereby making it possible to effectively **protect** a copyright of the CD-ROM. 21 Claims, 28 Drawing Sheets Page 2. US Patent 5,832,088 Nov. ...

Cited by 3 - Related articles - All 2 versions

Optical disc copy prevention system

A Winter, S Podhajski - US Patent App. 10/009,648, 2001 - Google Patents

... Therewith, according to the present invention a method is defined how to modify the physical data stream on an **optical** storage **disc** to influence ... format, eg audio data recorded in one session, can still access a record carrier provided with the **copy protection** according to ...

All 6 versions

Copy protection of optical discs

MD Jackson, RAA Heylen, B Sollish - US Patent App. 10/492,925, 2002 - Google Patents

... generally arranged in a hierarchical structure having a root directory and other sub-directories, and the removed **pointer** may have ... 6a when the **disc** has been **copy protected**, [0055] FIG. 7 shows schematically the information on an **optical disc** with multiple sessions, [0056] FIG ...

All 2 versions

OPTICAL DISK WITH COPY PROTECTION

HC Davis, CA Nelson, GJ Keller - 1999 - freepatentsonline.com

... Abstract not available for EP0902947 Abstract of corresponding document: US5809006

Copy-protected optical disk format, **optical** ... In another aspect, an authorized **optical disk** has data bit indications along a ... The **disk** further has stored thereon an indication of the number of ...

Cached - All 3 versions

Content protection system for optical data storage disc

SB Volk - US Patent App. 10/383,193, 2003 - Google Patents

... [0037] To illustrate the operation of the content **protection** system, suppose ... entertainment content) is read from **disc** 1 and copied onto another storage device, such as an **optical disc**. If the person who made the **copy** attempts to read the copied data, the application running in ...

All 2 versions

Optical disc, recording device and reproducing device

M Kaoru, O Tomoyuki, T Kazuhiro, S Noriko - 2002 - freepatentsonline.com

... 47 is a flow chart of an operation for recording audio data management information to **optical disc**; Fig. ... 7. TM_ZONE (time zone). Records the time zone used for all time information recorded to the **disc**. ... 00b: analog **copy protection** not enabled 01b: type 1 10b: type 2 11b: type 3. ...

Cached

Method for protecting content stored on an information carrier

RA Brondijk, MJJB Maes - US Patent App. 10/482,144, 2003 - Google Patents

... Such **optical** record carriers usually carry a unique number which can easily be used as ... If that **disc** is already in the database and "n">>="N", the actions as above will be ... 1. A method for protecting content comprising embedded **copy protection** data stored on an information carrier ...

All 6 versions

The **copy protection** of digital audio compact discs

RAA Heylen, R Edward - US Patent App. 09/958,445, 2001 - Google Patents

... [0036] A **copy protected** digital audio compact **disc** of the ... As well as defining physical properties of the **disc**, such as its dimensions, and its **optical** properties, such as the laser wavelength, the Red Book also defines the signal format and the data encoding to be used. ...

All 10 versions

Method of **copy** detection and **protection** using non-standard toc entries

PHC Bentveisen, PF Vollebregt - US Patent App. 10/511,218, 2003 - Google Patents

... Therein an **optical** pick-up unit 6 is provided for accessing and reading a **disc**. ... A demodulated signal is outputted as a result indicating if the accessed **disc** is an original (if TOC entries are written in a non-standard way) or a **copy** (if TOC entries are written in a standard ...

All 4 versions

Method and device for protecting user information against manipulations

WFJ Fontijn - US Patent App. 10/517,973, 2003 - Google Patents

... is preferably applied to **protect** administrative and/or security information, in particular **copy protection** information, usage rights, asset keys, device revocation lists, key locker **pointers** and/or cryptographic keys. Such information is stored in a key locker area on an **optical disk**. ...

All 5 versions

Content packet distribution system

... R Whittemore, DM Goldschlag, DW Kravitz ... - US Patent App. 09/ ..., 2001 - Google Patents

... This invention provides a mechanism for providing and retrieving content on a medium such as a DVD **optical disc**. One aspect of the present invention provides content by processing and packing data packets onto the medium. ... **Copy Protection** and Playback Control Page 2. ...

All 3 versions

Memory efficient method and apparatus for reading and caching of DVD data

LA Decarmo - 2002 - freepatentsonline.com

... therefore results in faster read-ahead operations without risking failure due to **copy protection** violations. ... such as a computer readable media, eg diskette, CD-ROM, ROM, or fixed **disc**) or transmittable ... can be either a tangible medium, including but not limited to **optical** or analog ...

Cached

Apparatus and method for recording and reproducing video data

H Unno - US Patent App. 09/986,201, 2001 - Google Patents

... that the storage of reduced image data may involve a problem from the viewpoint of **protection** of a ... image data in the management file 61a, while when an "only-one-generation-**copy**-enabled" video ... a **pointer** indicative of the storage position of the image in the **optical disk** 10 is ...

All 4 versions

Host-based caching method and system for **copy protected** content

US Patent 6,260,143, 2001 - Google Patents

... DATA POSITION TO 0 /624 SET CACHE FILLED FLAG TO TRUE /626 **COPY** REMAINING DATA FROM START OF CACHE TO CALLER'S DATA BUFFER ADVANCE **POINTER** TO NEXT ... The digital versatile **disc** system is capable of reading **copy protected** data from a ...

[Related articles](#) - All 2 versions

Copy protected DVD and method for producing and validating same

B Sollish, M Brody - US Patent App. 09/993,916, 2001 - Google Patents

... [0013] A further embodiment of **copy protection** is effec ... a predetermined maximum number of tries is exceeded, then the **disc** under test is very likely an unauthorized **copy**. ... with an embodiment of the invention, a method for produc- ing a signature on a digital **optical disc** (DVD). ...

All 3 versions

IS & C system and file **protection** mechanism

N Ohyama - Computer methods and programs in biomedicine, 1994 - Elsevier

... control File status Access control Original Read/Erase Authorized original Read Authorized **copy** Read Not ... data filing systems for medical use are required to have file **protection** or access ... K. Ogawa and S. Hashimoto, Clinical applica- tion of a magneto-**optical disk** image filing ...

[Related articles](#) - All 4 versions

Virtual addressing of **optical** storage media as magnetic tape equivalents

RV Keele, CD Mautner, TJ Thorpe, SR ... - US Patent ..., 1995 - Google Patents

... 0-31 (LBA) // » 30 31 312- II) 310 ID BYTES **DISK** TYPE **DISK** LABEL RESERVED ... r* e 402 408 i , LOAD REMAINDER OF BOOT FROM FLOPPY INITIALIZE SCSI **OPTICAL** tfRIVES e ... Sheet 13 of 15 VECTOR TO HARD OR FLOPPY HANDLER 9 **COPY** **OPTICAL** DRIVE STATUS ...

Cited by 48 - [Related articles](#) - All 2 versions

Device and method for decoding data streams from storage media

F Massoudi - US Patent 6,363,511, 2002 - Google Patents

... for convenient storage devices with even greater storage capacity, a new **optical** media known ... a DVD medium is stored in a similar manner as the traditional CD-ROM **disc**. ... the remaining bytes are used to store information related to error detection, **copy protection**, and payload ...

Cited by 5 - [Related articles](#) - All 2 versions

Error correction method

RJ Stenfort - US Patent 6,457,156, 2002 - Google Patents

... 11 Execute next instruction if statement is true: q = q cnt 15 achieved; and (3) to perform encryption (ie, compact **disc copy protection**) operations based ... 2 shows a block diagram of several hardware com- ponents that are integrated into a **optical** drive device 200, in accordance ...

[Related articles](#) - All 2 versions

Computer data storage **backup** with tape overflow control of **disk** caching of **backup** data strea

P Armangau, SR Dunham - US Patent 6,549,992, 2003 - Google Patents

... Internet Draft, filename 5.829.046 A 10/1998 Tzelnic et al 711/162 "draft-stager-iquare-netapp-backup-0.5.txt ... 3 C. >-i 11 o C > LJ LU CD > C C *> >o 0\ e> ON 0^ /~\ 00 CACHED **DISK** STC c t ... too oa: _i Q- I- I- A 0 0 O 0 ^-m SNAPSHOT VOLUME X LIST OF **POINTERS** TO FREE ...

Cited by 9 - [Related articles](#) - All 2 versions

Recording/reproducing apparatus and picture recording reservation method of recording/reprod apparatus

M Gunji, H Kataoka, T Yoneyama - US Patent App. 10/155,231, 2002 - Google Patents

... Then, picture recording reservation time information and the remaining capacity of the **disk** are calculated and whether or not ... Sequence header setting section Video processor Buffer memory RDI pack Setting section crocomputer block Work RAM |**Copy** information detection ...

[All 4 versions](#)

Intelligent backup and restoring system and method for implementing the same

MM Goshey, G Maffezzoni, GCT Wu, YC Lin, ... - US Patent ..., 2002 - Google Patents

... 1A 04b 108 103 104 SCSI Host Adapter 106 ^ ^~^ ^ Peripheral Storage Device 104a External HARD **DISK** 100 Host Computer System FIG. ... 3 of 21 Repair Host Computer System and prepare peripheral Storage Device to be an intellegent genesis backup **protection** System 114 ...

[Cited by 19](#) - Related articles - All 4 versions

[BOOK] Operating system concepts

A Silberschatz, PB Galvin, G Gagne, A Silberschatz - 1994 - cv.lhk.dk

... There, errors are frequently process-independent (for instance, the corruption of data on a **disk**), so there must be a global program (the ... Processes and system resources must have protections and must be **protected** from each other. ... c. Send by **copy** and send by reference ...

[Cited by 2679](#) - Related articles - View as HTML - Library Search - All 46 versions

Virtual memory primitives for user programs

AW Appel, K Li - Proceedings of the fourth international conference ..., 1991 - portal.acm.org

... smaller PAGESIZE than is normally used with **disk** pag- ... must alternate: they cannot operate truly concurrently because they might, simultaneously try to **copy** the same object to ... algorithm sets the virtual-memory **protection** of the un- scanned area's pages to be "no access." M ...

[Cited by 254](#) - Related articles - All 53 versions

RECORDING/REPRODUCING APPARATUS AND METHOD FOR PROGRAMMING RECORD OF THE RECORDING/REPRODUCING APPARATUS

M Gunji, H Kataoka, T Yoneyama - 2003 - freepatentsonline.com

... The hard **disk** device 2001 is contained in the apparatus and the **optical disk** 1001 is removable ... the above DVD-video, information to manage information of one **disk** is recorded on the **disk**. ... of the M_VOB, video start time and end time of the VOB, **copy protection** information are ...

[Cached](#) - All 3 versions

Computer system and process for accessing an encrypted and self-decrypting digital information product while restricting access to decrypted digital information

JJ Glover - US Patent 6,052,780, 2000 - Google Patents

... Computer programs or other digital information also may be encrypted in order to prevent an individual from making a useful **copy** of the information ... Generally, digital information is decrypted to **disk**, and not to main memory of the computer which is more **protected** by the ...

[Cited by 16](#) - Related articles - All 4 versions

Textbase for humanities applications: Wordcruncher

M Oisen - Computers and the Humanities, 1987 - Springer

... Avenue Provo, UT 84604 Note: For optimal performance, 640k RAM and either a hard **disk**, removable cartridge system or **optical disk** is recommended. ... The encrypted files themselves are not **copy protected**. ... can be blocked out in reverse video and sent to the printer or **disk** file. ...

[Cited by 4](#) - Related articles - All 3 versions

DVD recording/reproducing apparatus having a high-speed copying capability

M Nozaki, S Kikuchi - US Patent 6,396,998, 2002 - Google Patents

... 28, 2002 Sheet 1 of 17 11A 21B 1ST **DISC** DRIVE 2ND **DISC** DRIVE KEYBOARD ... May 28, 2002 Sheet 11 of 17 C2 Yes DETERMINE FILE **POINTERS** , UPDATE READOUT ... Yes TRANSFER DECODER 15 INTO NORMAL MODE Fetched / Yes FETCH **COPY PROTECTION** INF ...

[Cited by 2](#) - Related articles - All 2 versions

Method and apparatus for backing up a **disk** drive upon a system failure

G Maffezzoni - US Patent 6,385,707, 2002 - Google Patents

... 1A 101 108 100 External HARD **DISK** 106 104b 104a 103 SCSI Host Adapter 104 106 Peripheral Storage Device „ 100 \ V Host ... 2002 Sheet 3 of 24 Repair host computer system and prepare peripheral storage device to be an intelligent Genesis backup **protection** system 114 J ...

Cited by 8 - Related articles - All 2 versions

Optical disc controller and optical disc apparatus using the same

K Watanabe, T Suzuki, A Hatusugawa, M ... - US Patent App. 10/ ... 2002 - Google Patents

... 5,2002 (54) **OPTICAL DISC CONTROLLER AND OPTICAL DISC APPARATUS USING THE SAME**
(76) Inventors: Katsuya Watanabe, Nara (JP); Tatsuo Suzuki, Kyoto (JP); Akihiro Hatusugawa, Kyoto (JP); Masanobu Takahashi, Osaka (JP) Correspondence Address: Neil A. ...

Cited by 1 - Related articles - All 4 versions

Optical storage of page images and pictorial data-opportunities and needed advances in inform retrieval

WR Nugent, JR Harding - Proceedings of the eighth symposium on ..., 1983 - portal.acm.org

... will have the option to command an offline batch printer to print those pages that he wishes to receive in hard **copy** form ... Not **protected** by US copyright ... The first method, which we call the "Bound Volume" approach, is the digital **optical disk** equivalent to the usual library practice of ...

Cited by 3 - Related articles - All 4 versions

Disk apparatus, and recording method using the same

M Kanai, H Unno - US Patent App. 10/320,365, 2002 - Google Patents

... 3,2003 (54) **DISK APPARATUS, AND RECORDING METHOD USING THE SAME** (76) Inventors: Masaya Kanai, Hino-shi (JP); Hiroaki Unno, Kunitachi-shi (JP) Correspondence Address: PILLSBURY WINTHROP, LLP PO BOX 10500 MCLEAN, VA 22102 (US) (21) Appl. ...

All 3 versions

Integrating digital watermarks in multimedia content

KL Levy, BT Hannigan, BA Bradley, GB ... - US Patent App. 10/ ... , 2002 - Google Patents

... or signals stored in a storage device, such as a portable storage device (eg, **optical** or magnetic **disk** or tape ... Other examples include multimedia collections that are packaged together on a storage device, such as **optical** or magnetic storage ... [0043] **Copy Protection** [0044] In a ...

Cited by 1 - Related articles - All 4 versions

[BOOK] The computer music tutorial

C Roads - 1996 - books.google.com

... practical until 1924 (Keller 1981). Figure 1.2 depicts one of the horn-loaded loud-speakers typical in the 1920s. **Optical** sound recording on film was first demonstrated in 1922 (Ristow 1993). Sound recording on tape coated ...

Cited by 802 - Related articles - Library Search - All 11 versions

Laser optical disk: the coming revolution in on-line storage

L Fujitani - Communications of the ACM, 1984 - portal.acm.org

... The recorded information is thereby **protected** from physical damage. ... In some cases, the backup can be made by writing two disks simultaneously. ... FIGURE 3. The Workings of the Read/Write Head of the Laser **Optical Disk** Ddve fis2 Communications of the ACM ...

Cited by 53 - Related articles - All 3 versions

Methods and apparatus for continuous control and protection of media content

TG Shamoon, RD Hill, CD Radcliffe, JP Hwa - 2003 - freepatentsonline.com

... either the CMPO and/or other CI and/or the CMPS contains a **pointer** to certain ... one CMPS arrangement handles all of the processing (a DVD (or other **optical disk**) player which ... output stream would be encrypted as per the "five company proposal" for **copy protection** using IEEE ...

Cached - All 4 versions

Method for addressing a bit stream recording

M Winter - 2000 - freepatentsonline.com

... to a method and to an apparatus for addressing a bitstream to be recorded or being recorded on a storage medium, eg an **optical disc**. ... **Copy Protection** must be supported. ... The files storing the **disc** content are placed under the STRREC directory which is under the root directory. ...

Cached

Apparatus and method for an installation recovery system

KP Davis - US Patent 6,189,147, 2001 - Google Patents

... Installation programs are necessary for **copy protected** applications which cannot be copied by normal system commands ... Bl 8 an erasable programmable read-only memory (EPROM or Flash memory) (magnetic), an **optical** fiber (**optical**), and a portable compact **disc** read-only ...

Cited by 5 - Related articles - All 3 versions

Data **disc** modulation for minimizing pirating and/or unauthorized copying and/or unauthorized access of/to data on/from data media including compact discs and ...

DW Stebbings - US Patent 6,636,689, 2003 - Google Patents

... 21,2003 Sheet 1 of 26 US 6,636,689 BI **DISC** PLAYING TIME: 74 MINUTES, 33 SECONDS

MAXIMUM ROTATION: COUNTER-CLOCKWISE ... 0.5 um **OPTICAL** SYSTEM STANDARD

WAVELENGTH: X = 780 nra (7.800A) FOCAL DEPTH: ±2um (X/NA< 1.75 um, NA: NUMERICAL ...

Cited by 1 - Related articles - All 2 versions

Device for recording data, record carrier and method for recording data

PHC Bentveisen, WFJ Fontijn - US Patent App. 10/511,976, 2003 - Google Patents

... [0005] An example of data that can be **protected** is music. ... These rights may be, for example, the right to **copy** the data once. ... Also, an **optical disc** may be used for the record carrier, or other media such as a magnetic **disc** or tape may be used. ...

All 5 versions

Method for generating a footprint image file for an intelligent **backup** and restoring system

GCT Wu, TT Bui, MM Goshey - US Patent 6,374,363, 2002 - Google Patents

... 16,2002 Sheet 1 of 24 US 6,374,363 BI 102 104c External ^ HARD **DISK** FIG. ... 16,2002 Sheet 3 of 24 US 6,374,363 BI Repair host computer system and prepare peripheral storage device to be an intelligent Genesis backup **protection** system Insert cartridge having a media into ...

Cited by 5 - Related articles - All 2 versions

Recorded contents **protection** scheme for digital recording/reproducing system

S Kikuchi, H Ando, K Taira, Y Ito, H Mimura, H ... - US Patent ..., 2003 - Google Patents

... 10,2003 (54) RECORDED CONTENTS **PROTECTION** SCHEME FOR DIGITAL RECORDING/REPRODUCING ... FILE ID PADD 1 NG SYSTEM USE (**COPY** RIGHT MANAGEMENT ... RECORDING LAYER 17 RECORDABLE/READABLE (OR REWRITABLE) **OPTICAL DISC** 10 FIG.1 ...

Cited by 1 - Related articles - All 2 versions

MULTIMEDIA **OPTICAL DISK** ON WHICH AUDIO DATA OF A PLURALITY OF CHANNELS A SUB-VIDEO DATA TOGETHER WITH TIME-VARYING IMAGE DATA, ...

K Yamauchi, M Kozuka, K Tsuga, K Murase, S Saeki, K ... - 2002 - freepatentsonline.com

... The title search **pointer** table stores a **pointer** pointing to the location of the PGC information which is executed first when the ... **Disc** reproduction apparatus 1 reproduces the **optical disc** (DVD) according to instructions sent from remote controller 91 and outputs picture signals and ...

Cached - All 4 versions

Disk array controller with enhanced synchronous write

P Dornier, D Kikinis - US Patent 5,835,955, 1998 - Google Patents

... system that derives its emergency power from an uninterruptable power supply (UPS) is **protected** for an ... 1 wherein the array of non-volatile storage drives comprises writable magneto-**optical disk**

drives. ... as in claim 1 wherein the log drive controller flags the third **copy** of each ...

Cited by 7 - Related articles - All 4 versions

Recording medium having a plurality of sections storing root directory information

M Ohgake - US Patent App. 09/793,132, 2001 - Google Patents

... to information (programs or data) recorded on a recording medium or an illegal **copy** of such ... to a directory structure, the data recorded on the recording medium being **protected** from being ... The data recorded on the **optical disc** 1, which includes directories or files, is read by ...

All 3 versions

Availability and recovery of files using **copy** storage pools

DM Cannon, MA Kaczmarek, DP Warren Jr - US Patent 6,148,412, 2000 - Google Patents

... The client system transfers twice as much data to the server to maintain back-up **protection** for a single ... pool consists of a set of storage devices of the same type, either DASD, **optical disk**, or magnetic ... A first storage pool, a primary storage pool, stores a primary **copy** of client files ...

Cited by 7 - Related articles - All 2 versions

Archival and retrieval system accessing an external storage by polling internal queues from remote terminals minimizing interruption of a host processor

DN MacDonald - US Patent 5,530,899, 1996 - Google Patents

... Backup to floppy **disk** is technically possible but time consuming, since most directories will be at least ... The data on the **optical** platter is permanently written and cannot be erased and has a ... platters can be recorded using a dual drive system and standard DOS **copy** commands. ...

Cited by 6 - Related articles - All 2 versions

System, method and computer program product to automatically select target volumes for a fast **copy** to optimize performance and availability

L Nguyen, MJ Seaman, SMAA Jafri - US Patent App. 10/387,000, 2003 - Google Patents

... a portion thereof, on some form of backup data storage device, such as magnetic or **optical disk** drives, tape ... The backup/restore subsystem is used to **protect** against loss of data ... type of problem, the latest version of those data sets which are stored in a backup/restore subsystem ...

All 4 versions

Method of storing BIOS modules and transferring them to memory for execution

CE Stevens - US Patent App. 10/629,191, 2003 - Google Patents

... digital video **disk** (DVD) drive, a floppy **disk** drive, a Zip drive, a SuperDisk drive, a Magneto-**Optical disk** drive, a Jazz drive, a high density floppy **disk** (HiFD) drive ... The dispatch manager executes to sequentially **copy** selected BIOS modules identified in its list of tasks to execute ...

Cited by 3 - Related articles - All 4 versions

The design of POSTGRES

M Stonebraker, LA Rowe - ACM Sigmod Record, 1986 - portal.acm.org

... its date appear, and notice IS given that copymg IS by permission of the Association for Computing Machinery To **copy** otherwise, or ... implementing custom designed VLSI chips Our fifth goal, then, IS to investigate a design that can effectively utilize an **optical disk**, several tightly ...

Cited by 675 - Related articles - All 21 versions

Digital recording/reproducing apparatus

S Kikuchi, K Fujita, H Kataoka - US Patent App. 09/951,773, 2001 - Google Patents

... 2. Description of the Related Art [0005] In recent years, **optical disc** players, for playing back **optical** discs with ... other hand, a recordable/reproducible DVD has a small storage capacity as compared with a hard **disk**. Moreover, it is impossible to record **copy-protected** information ...

All 4 versions

Snapshot **copy** facility for a data storage system permitting continued host read/write access

P Armangau - US Patent 6,434,681, 2002 - Google Patents

... In the preferred implementation, the data storage system allocates to the snapshot **copy** a bit map to indicate storage locations in the production data set that have been modified, and a list of **pointers** to allocated storage locations for the snapshot **copy**. ...

Cited by 15 - Related articles - All 2 versions

Drive preparation methods for intelligent **backup** systems

G Maffezzoni, MM Goshey - US Patent 6,289,426, 2001 - Google Patents

... 1A 101 100 External HARD **DISK** 106 104b 108 104a 103 SCSI Host Adapter 104 106 Peripheral Storage Device 100 Host Computer ... Sheet 3 of 25 Repair host computer system and prepare peripheral storage device to be an intelligent Genesis backup **protection** system Insert ...

Cited by 5 - Related articles - All 2 versions

Domestic Patent References

MJ Nicholls - OPTICAL ENGINEERING, 1987 - freepatentsonline.com

... As a result, the control data SC1 can be made difficult to observe and to decode. In addition, it becomes hard to physically **copy** the pit width which changes in accordance with the control data SC1. ... Then, the lower-layer **disc** plate 26A of the **optical disc** 26 shown in Figs. ...

Cached - All 2 versions

System for computer software **protection**

JC McCarty - US Patent 5,666,411, 1997 - Google Patents

... Thus, this form of media **copy protection** a decade, yet no general-purpose devices are currently being discouraged ... **protection** algorithm by monitoring the port and bus lines (1988 ... Instead, enciphered programs are stored on **disk** and loaded into "private" memory for execu- tion. ...

Cited by 19 - Related articles - All 2 versions

Technical Field

R Daniels, L Nelson, A Dallmann, D Le - System, 2003 - freepatentsonline.com

... The connection to communication network 212 may be through an **optical** coupling or more conventional conductive cabling ... within a single LUN 112 a , 112 b such that a first range of logical **disk** addresses (LDAs ... A persistent **copy** of the memory representation shown in FIG. ...

Cached - All 2 versions

Digital imaging in the radiation oncology environment: A personal computer local area network solution

PM Stafford, EE Martin, JCH Chu, BA Davidson, ... - Journal of Digital ..., 1991 - Springer

... ate archived to the VAX cluster to maintain working space on the LAN **optical disk** (G,H ... Along the top of the images, the FILE menu allows selection of **disk** drives available to the ... capabilities of MID are provided by the EDIT menu, which allows UNDO, CUT, **COPY** and PASTE of ...

Cited by 10 - Related articles - All 2 versions

Method for implementing point-in-time **copy** using a snapshot function

DR Blea, DR Blea, MA Haye, RM Kern, DM ... - US Patent ..., 2001 - Google Patents

... a backup/restore subsystem is typically used to save a recent **copy** or version of one or more data sets or portion thereof on some form of backup data storage device, such as magnetic or **optical disk** drives, tape ... The backup/restore subsystem is used to **protect** against loss ...

Cited by 19 - Related articles - All 2 versions

[BOOK] Bharat Dictionary of Computer

K Jain - 2003 - books.google.com

... Access Limite — A limit set for the number of people who can read, use, or alter a set of **protected** data files. Access Mechanism — A mechanical device in the **disk** storage unit to position the read/write heads on proper tracks for the retrieval/storage of data. ...

All 2 versions

[CITATION] In-memory database systems

S Graves - Linux Journal, 2002 - portal.acm.org

... The **copy** in the database cache is eventually written to the filesystem, where it is updated in the filesystem cache. ... This is a major difference from **disk-based** databases. ... can be a pipe to another process or a filesystem **pointer** (any filesystem, whether it's magnetic, **optical** or Flash ...

[Cited by 6 - Related articles - All 2 versions](#)**Server verification of requesting clients**

S Field, MW Thomlinson, A Cooper - US Patent 6,253,324, 2001 - Google Patents

... Such data items might stored on the hard **disk**, magnetic **disk** 29, **optical disk** 31, include cryptographic ... steps performed by the operating system loader, in order to 65 create a **copy** of the ... the requesting client program has not been altered in comparison to the on-**disk** image file. ...

[Cited by 3 - Related articles - All 2 versions](#)**Method and apparatus for configuring a hard disk and for providing support for a computer system**

R Rive - US Patent 6,281,894, 2001 - Google Patents

... Specifically, the first partition is **protected** from user modification when the first ... DEFINE 1ST SUPPORTED HARD **DISK** PARTITION; 2ND UNSUPPORTED HARD **DISK** PARTITION, A ... 1ST PARTITION DESIGNATE 3RD "MIRROR" PARTITION AS ACTIVE **COPY** CONTENT OF ...

[Cited by 4 - Related articles - All 4 versions](#)**Creating, verifying, managing, and using original digital files**

ML Reynolds - US Patent App. 09/999,774, 2001 - Google Patents

... to a method of retaining N+I documents on a recording medium such as a magneto-**optical disk**. ... invention may be used in conjunction with conventional data mirroring and/or data backup tools and ... This may be done, for example, by specifying a **disk** sector address, a file system ...

[All 2 versions](#)**Scalable storage architecture**

DV Gerasimov, IV Gerasimov - US Patent App. 09/730,631, 2000 - Google Patents

... SSU) 86 is a software module that manages each Secondary Media Storage Device (SMSD) such as a robotically operated tape or **optical disk** library. ... to the file-system at either creation time or when **disk** is added three files are created on the master **disk**: the **copy** of the ...

[All 6 versions](#)**Apparatus and method for the availability and recovery of files using copy storage pools**

DM Cannon, MA Kaczmarski, DP Warren Jr - 2002 - freepatentsonline.com

... The client system transfers twice as much data to the server to maintain back-up **protection** for a single file. ... Further, **copy** storage volumes are not meant to be limited to magnetic tape, but may comprise other storage media, such as DASD or **optical disk**. ...

[Cached](#)**Recording apparatus, recording method, and dubbing apparatus for recording or dubbing programs and character data**

Y Utsumi - US Patent App. 09/145,889, 1998 - Google Patents

... 00000000 00000000 00000000 00000000 00000000 00000000 00000000 Maker code Model code First TNO Last TNO 00000000 00000000 00000000 Used Secters 00000000 00000000 00000000 00000000 00000000 **Disc** Serial No **DISC** ...

[All 4 versions](#)**Method and apparatus to access data records in a cache memory by multiple virtual addresses**

JS Belsan, JT O'Brien - US Patent 5,379,391, 1995 - Google Patents

... data record by sim- in particular, to a data record **copy** apparatus in a **disk** ply generating a new set of **pointers** to reference the drive array that instantly makes a **copy** of an ... Thus, by simply generating a second memory and with cache consistency **protection** for set of **pointers** ...

[Cited by 12 - Related articles - All 2 versions](#)

System and method for generating point in time storage **copy**

CE Lubbers, JM Reiser, A Korgaonkar, RL ... - US Patent App. 10/ ... , 2001 - Google Patents
... 54) SYSTEM AND METHOD FOR GENERATING POINT IN TIME STORAGE **COPY** (76) Inventors ...
data accuracy when write I/O operations are directed to a logical **disk**. 501 STATE LMAP **POINTER**
RSSID PHYSICAL MEMBER SELECTION RAID INFO STATE LMAP **POINTER** ...

[Cited by 1 - Related articles - All 3 versions](#)

System and method for database save and restore using self-pointers

ME Nagy - US Patent 6,115,721, 2000 - Google Patents
... of the invention to provide a memory device, such as a transmission medium, magnetic or **optical**
tape or **disc**, or the like ... However, any storage 20 device, such as magnetic tape, **optical** storage,
or even volatile storage devices may be used for storing the backup image of ...

[Related articles - All 2 versions](#)

System to demonstrate and sell computer programs

CE Molnar, AL Backus - US Patent 5,166,886, 1992 - Google Patents
... as hard **disk**, vended; organizes said information for broadcast; and 5 battery backed RAM, floppy
disk, magnetic tape ... 23, broadcast memory 3) The Computer Sites #34 #57: provide apparatus
10 #24, and backup storage #26 ... 1, a limited set of com- 15 netic ^^ or **optical** media. ...

[Cited by 23 - Related articles - All 2 versions](#)

Information recording apparatus and method, information reproducing apparatus and method, information recording program and information reproducing program, ...

T Sawabe, M Nakahara - US Patent App. 10/339,664, 2003 - Google Patents
... control information and encoded distributed information on an **optical disk** DK. ... OF THE
DISTRIBUTED REPRODUCTION CONTROL INFORMATION -S34 **COPY** THE COMMON ... ATTRIB-
UTE INFOR- MATION CONVERSION DATA SEARCH **POINTER** NUMBER INFORMATION ...

[All 5 versions](#)

Primary Class

SM Belousov, SS Protassov, AG Tomasov, AV ... - System, 1999 - freepatentsonline.com
... the advantage in that they retain in the stack the value of the stack **pointer**. ... instructions are
instructions that cannot be patched or analyzed correctly, such as **copy protect** instructions or ...
a removable storage drive 614 , representing a magnetic tape drive, an **optical disk** drive, etc. ...

[Cached - All 2 versions](#)

Image filing system for protecting partial regions of image data of a document

H Masuzaki, S Ito, H Fujisawa, M Fujinawa, N ... - US Patent ..., 1993 - Google Patents
... MARK POSITION 77 SECRET REGION SETTING COMPLETED 9 YES 81 SET SECRET REGION
79 INSTRUCT REGISTRATION OF IMAGE SET **PROTECTION** MODE 80 ... 10 is a flowchart showing
the procedures car- ried out to **copy** an image onto the **optical disk**; FIG. ...

[Cited by 4 - Related articles - All 2 versions](#)

[CITATION] Development of Omniserver

DA Arneson - Tenth IEEE Symposium on Mass Storage Systems, ..., 1990

[Cited by 5 - Related articles - All 3 versions](#)

Systems and methods for data **backup** over a network

B Murray, A Lewitzky, T Boldt - US Patent App. 10/251,499, 2002 - Google Patents
... The backup data is usually encrypted to **protect** against the release of proprietary information
and ... Examples of storage media, in order of access speed, include: RAID **disc**; **optical**; nearline;
and tape ... 1. A method for storage of data files, comprising: creating a baseline **copy** of the ...

[All 3 versions](#)

Fast data **copy** using a data **copy** track table

DG Beal - US Patent App. 10/114,677, 2002 - Google Patents

... Any physical storage devices such as **disk** drives, tape drives, **optical** drives, or ... In one embodiment, the computer programs comprise a program 114 which can issue a **copy** request and a program 116 which can control a fast **copy** function. [0021] Again referring to FIG. ...

[Related articles](#) - All 3 versions

System for modifying a master partition table of a master boot record to create a personalized local data drive having dedicated allocation for a specified user

K Hubacher, D Sposato, PC Theiller - US Patent 6,507,905, 2003 - Google Patents

... FOR ID 302 304 306 310 RETRIEVE **POINTERS** FROM CONFIGURATION FILE AND **COPY**

TO FILE ... The partition of other users is **protected** at a machine level and could not ... or peripheral devices, such as flash ROM (or equivalent nonvolatile memory) or **optical disk** drives and ...

[Related articles](#) - All 2 versions

System and method for correlating processing data and image data within a digital camera device

EC Anderson, MM Masukawa - US Patent 6,177,956, 2001 - Google Patents

... A second flash spooler then transfers the compressed image data file from the RAM **disk** to the ...

Following a disruptive event, the data cell manager may locate the **copy** of the data cell which ... an image of object 12 via reflected light impacting image sensor 24 along **optical** path 34 ...

[Cited by 9](#) - [Related articles](#) - All 5 versions

Memory efficient method and apparatus for reading and caching of DVD data

US Patent 6,381,404, 2002 - Google Patents

... in the art will appreciate that the DVD drive 104 has, for example, an **optical** pick-up ... below, for read- 45 ahead operation and caching of DVD data read from the **disc**. ... conventional read-ahead operations can be limited or prevented altogether due **copy- protection** techniques. ...

[Related articles](#)

Automatic reconfiguration of alterable systems

N Harada, K Inoue, M Shinomura - US Patent 5,497,490, 1996 - Google Patents

... used for storing backup configuration information is either exclusively reserved for that function (ie for exclusive use only by the POST process) or otherwise **protected** against being ... 2 illustrates storage of backup copies of information, in the hard **disk** drive unit of the ...

[Cited by 27](#) - [Related articles](#) - All 2 versions

System and method for sign mask encryption and decryption

JM Jian - US Patent App. 10/141,724, 2002 - Google Patents

... For example, analog content is troublesome to illicitly **copy** and redistribute. ... memory device, a read only memory (ROM), a flash memory, a type of erasable programmable ROM (EPROM or EEPROM), a floppy diskette, any **optical disk** (eg, CD or DVD), a hard **disk**, or the ...

[All 3 versions](#)

Character information copying system, recording apparatus and recording method

T Koyata, T Hirai, S Isozaki, H Mizuno - US Patent App. 10/387,396, 2003 - Google Patents

... 00000000 00000000 00000000 00000000 00000000 00000000 00000000 Maker code Model code First TNO Last TNO 00000000 00000000 00000000 Used Sectors 00000000 00000000 00000000 00000000 00000000 **Disc** Serial No. ...

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